INDEX

AAES-JØRGENSEN, E. Essential fatty acid deficiency. III. Effects of conjugated isomers of dienoic and trienoic fatty acids in rats, 465.

AAES-JØRGENSEN, E., E. E. LEPPICK, H. W. HAYES AND R. T. HOLMAN. Essential fatty acid deficiency. II. In adult rats, 245.

ADAM, D. J. D. See Hansen, A. E., 565; Wiese, H. F., 345.

ADAM, D. J. D., A. E. HANSEN AND H. F. WIESE. Essential fatty acids in infant nutrition. II. Effect of linoleic acid on caloric intake, 555.

American Institute of Nutrition
Editor of Journal of Nutrition, report of, 143.
Election of officers for 1958-59, 140.
Fellows, invitation for nominations for, 138, 308.
New members elected, 1958, 144.
Proceedings, 22nd Annual Meeting, 139.

Amino acid(s), antibiotics and vitamin B_{12}, effect of supplementation of differently processed groundnut meals with on the nutritive value of the meals, 75.

—— deficiencies and protein level, influence of on the plasma cholesterol of the chick, 367.

—— (niacin and) in maize, effect of alkali treatment on the availability of, 163.

—— requirements for maintenance in the adult rooster. I. Nitrogen and energy requirements in normal and protein-depleted animals receiving whole egg protein and amino acid diets, 441.

—— supplementation and amino acid availability, studies of with oats, 533.

——, supplementation of cereal proteins with. I. Effect of amino acid supplementation of corn-masa at high levels of protein intake on the nitrogen retention of young children, 485; II. Effect of amino acid supplementation of corn-masa at intermediate levels of protein intake on the nitrogen retention of young children, 501.

Antibiotics, amino acids and vitamin B_{12}, effect of supplementation of differently processed groundnut meals with on the nutritive value of the meals, 75.

— in rations of varying fat content, growth of thiamine-deficient rats fed, 383.

ARNOLD, E. A. See Lyons, J. B., Jr., 261.

Ataxia, congenital nature of in manganese deficiency in rats, 309.

Aureomycin, penicillin and vitamin B_{12}, effect of on the liver reserves of vitamin A esters of the rat, 129.

BALASUNDARAM, S., H. R. CAMA, D. A. MALIK AND C. VENKATESHAN. Nutritive value of differently processed groundnut meals and the effect of supplementation of the meals with amino acids, antibiotics and vitamin B_{12}, 75.

BALDRIDGE, R. C. Effects of thiamine and riboflavin deficiency on histidine metabolism, 29.

BARBORIAK, J. J., G. R. COWGILL AND A. D. WHEDON. Testicular changes in pantothenic acid-deficient rats, 457.

BARROWS, C. H., JR. The effect of dietary proteins on the level of plasma cholinesterase of rats, 515.

BAUMANN, C. A. See Jones, J. D., 383.

BAUR, L. S., AND L. J. FILER, JR. Evaluation of lysine supplementation of infant formulas fed to rats, 545.

BECKER, E. Effect of sodium salicylate on the food and oxygen consumption of rats, 237.

BÉHAR, M. See Bressani, R., 501; Scrimshaw, N. S., 485.

BENTON, D. A. See Tang, J. J., N., 533.

BERG, C. P. Henry Allbright Mattill (November 28, 1883-March 30, 1953), 3.

BERT, M. See Dick, E. C., 173.

Bessey-Lowry method for estimation of vitamin A and carotene in serum, hemolysis and reagent purity as factors causing erratic results by, 205.

Bile, role of in calcium absorption, 45.

BLOOD, F. R. See Faulkner, W. R., 361.

Blood pyridine nucleotides, nitrogen balances and urinary excretion of *N'*-methyl-nicotinamide and *N'*-methyl-2-pyridone-5-carboxamide on a low-niacin diet. Some aspects of tryptophan metabolism in human subjects. I., 587.

BOELSCHE, A. N. See Hansen, A. E., 565.

BORCHERS, R. Effect of dietary level of raw soybean oil meal on the growth of weanling rats, 229.

Borden award in nutrition, 1958 presentation, 160; 1959 invitation, 136; 306.

BRADSHAW, D. A. See Lyon, J. B., Jr., 261.

BRAKKE, B. E. See Roderuck, C., 15.

BRESSANI, R. See Scrimshaw, N. S., 485.

BRESSANI, R., N. S. SCRIMSHAW, M. BÉHAR AND F. VITERI. Supplementation of cereal proteins with amino acids. II. Effect of amino acid supplementation of corn-masa at intermediate levels of protein intake on the nitrogen retention of young children, 501.

BRODOVSKY, E. R. See Utley, M. H., 205.

BROWN, R. R., V. M. VIVIAN, M. S. REYNOLDS AND J. M. PRICE. Some aspects of tryptophan metabolism in human subjects. II. Urinary tryptophan metabolites on a low-niacin diet, 599.

BROWNING, C. B., D. B. PARRISH AND F. C. FOUNTAINE. Effect of feeding low levels of diethylstilbestrol on gestation and lactation of rats, 321.

BURRILL, L. See Roderuck, C., 15.

CALCIUM absorption, role of bile in, 45.

— intake, effect of linoleic acid on. Essential fatty acids in infant nutrition. II., 555.

CAMA, H. R. See Balasandarum, S., 75.

CAMA, H. R., AND D. A. MALIK. The effect of penicillin, aureomycin and vitamin B_{12} on the liver reserves of vitamin A esters of the rat, 129.
CAMA, H. R., D. A. MALIK AND R. NATH. Electrophoretic analyses of groundnut proteins prepared under different conditions of extraction of oil, 123.
CAMPBELL, L. J. See Roderuck, C., 15.
Cannibalism, filicidal, by female albino rats, 377.
Carbohydrate and protein, gastric emptying and intestinal absorption of as influenced by the nature of the test meal, 91.
—, type of, effect of on growth and food intake, 217.
Cereal proteins, amino acid supplementation of. I. Effect of amino acid supplementation of corn-masa at high levels of protein intake on the nitrogen retention of young children, 485; II. Effect of amino acid supplementation of corn-masa at intermediate levels of protein intake on the nitrogen retention of young children, 501.
CHALOUPKA, M. See Roderuck, C., 15; Vivian, V. M., 587.
CHEN, S. D. See Dick, E. C., 173.
CHILDS, M. T. See Roderuck, C., 15.
Chick, influence of amino acid deficiencies and protein level on the plasma cholesterol of the, 367.
Cholecystonephrostomy, absorption of vitamin A in dogs following, 35.
Cholesterol-fed growing rats, effects of supplementary methionine and choline on tissue lipides and on the vascular structure of, 55.
Cholesterol, plasma, of the chick, influence of amino acid deficiencies and protein level on, 367.
Choline-deficient weanling albino rats, comparative effects of cottonseed oil, fatty acids and diethylstilbestrol upon, 425.
Choline (methionine and), effect of supplementary on tissue lipides and on the vascular structure of cholesterol-fed growing rats, 55.
Cholinesterase (plasma), of rats, effect of dietary proteins on the level of, 515.
Corn-masa, effect of amino acid supplementation of at high levels of protein intake on the nitrogen retention of young children. Supplementation of cereal proteins with amino acids. I., 485.
Corn-masa, effect of amino acid supplementation of at intermediate levels of protein intake on the nitrogen retention of young children. Supplementation of cereal proteins with amino acids. II., 501.
Cottonseed meal, effect of bound gossypol on the growth-promoting properties of, 393.
— oil, fatty acids and diethylstilbestrol, comparative effects upon choline-deficient weanling albino rats, 425.
COWGILL, G. R. See Barboriak, J. J., 457.
Cystine and cysteine, exogenous, replacement of by thiazolidinecarboxylic acid, 607.

DARBY, W. J. See Faulkner, W. R., 361.
DEBEY, H. J., J. B. MACKENZIE AND C. G. MACKENZIE. The replacement by thiazolidinecarboxylic acid of exogenous cystine and cysteine, 607.
Dental caries in two strains of rats fed diets of two degrees of fineness, 105.
—— response of rats fed cariogenic and non-cariogenic diets for different periods of time, 113.
DICK, E. C., S. D. CHEN, M. BERT AND J. M. SMITH. Thiamine requirement of eight adolescent boys, as estimated from urinary thiamine excretion, 173.
Dienoic and trienoic fatty acids, conjugated isomers of, effects of in rats. Essential fatty acid deficiency. III., 465.
Diet(s), cariogenic, of comparable sucrose content, influence of salt mixture added to, 333.
—— and non-cariogenic, fed to rats for different periods of time, dental caries response, 113.
—, low-niacin, nitrogen balances, blood pyridine nucleotides and urinary excretion of *N'*-methylnicotinamide and *N'*-methyl-2-pyridone-5-carboxamide on. Some aspects of tryptophan metabolism in human subjects, I., 587.
—, low-niacin, urinary metabolites on. Some aspects of tryptophan metabolism in human subjects. II., 599.
—, thiamine-deficient, influence of orally-administered penicillin upon growth and liver thiamine of growing germfree and normal stock rats fed, 577.
Diethylstilbestrol (cottonseed oil, fatty acids and), comparative effects upon choline-deficient weanling albino rats, 425.
—, effect of feeding low levels on gestation and lactation of rats, 321.
DOBBINS, J. W. See Lengemann, F. W., 45.
Dogs, absorption of vitamin A in, following cholecystonephrostomy, 35.

ELECTROPHORETIC analyses of groundnut proteins prepared under different conditions of extraction of oil, 123.
ELLIS, S. J. See Kaser, M. M., 35.
ELLIS, W. W. See Miller, G. J., 425.
ELVEHJEM, C. A. See Harper, A. E., 163; Yoshida, A., 217.
EVERSON, G. J. See Hurley, L. S., 309.

FAT content, varying, in rations containing sorbitol or antibiotics, growth of thiamine-deficient rats fed, 383.
—, dietary, influence upon the niacin requirement of the mouse, 277.
—— level of and type of carbohydrate, effect of on growth and food intake, 217.
Fatty acid(s) (cottonseed oil and diethylstilbestrol), comparative effects upon choline-deficient weanling albino rats, 425.
——, dienoic and trienoic, effects of conjugated isomers of in rats. Essential fatty acid deficiency. III., 465.
——, essential, deficiency. II. In adult rats, 245; III. Effects of conjugated isomers of dienoic and trienoic fatty acids in rats, 465.
————, in infant nutrition. I. Linoleic acid requirement in terms of di-, tri- and tetraenoic acid levels, 345; II. Effect of linoleic acid on caloric intake, 555; III. Clinical manifestations of linoleic acid deficiency, 565.
FAULKNER, W. R., F. R. BLOOD AND W. J. DARBY. Effect of folic acid deficiency on myoglobin concentration in skeletal muscle of the guinea pig, 361.
FILER, L. J., JR. See Baur, L. S., 545.

FISHER, H. See Johnson, D., Jr., 367; Leveille, G. A., 441.
Folic acid deficiency, effect of on myoglobin concentration in skeletal muscle of the guinea pig, 361.
Food intake, effect of dietary level of fat and type of carbohydrate on growth and, 217.
— and oxygen consumption of rats, effect of sodium salicylate on, 237.
—, studies on goitrogenic agents in. III. Goitrogenic action of some glycosides from edible nuts, 291.
FOUNTAINE, F. C. See Browning, C. B., 321.

GEIGER, J. F. See Hurley, L. S., 309.
Gestation and lactation of rats, effects of feeding low levels of diethylstilbestrol on, 321.
Glycosides isolated from edible nuts, goitrogenic action of. Studies on goitrogenic agents in food. III., 291.
Goitre, occurrence of on the island of Krk, Yugoslavia, role of vitamin A in, 189.
Goitrogenic agents in food, studies on. III. Goitrogenic action of some glycosides isolated from edible nuts, 291.
Gossypol, bound, effect of on the growth-promoting properties of cottonseed, soybean and peanut meals, 393.
Groundnut meals, nutritive value of differently processed and the effect of supplementation of the meals with amino acids, antibiotics and vitamin B_{12}, 75.
— proteins, prepared under different conditions of extraction of oil, electrophoretic analyses of, 123.
Growth and food intake, effect of dietary level of fat and type of carbohydrate on, 217.
— of germfree and normal stock rats fed a thiamine-deficient diet, influence of orally-administered penicillin upon, 577.
GUERRANT, N. B. See Passananti, G. T., 55.
Guinea pig, myoglobin concentration in skeletal muscle of, effect of folic acid deficiency on, 361.

HAGGARD, M. E. See Hansen, A. E., 565.
HALDI, J., W. WYNN, J. H. SHAW AND R. F. SOGNNAES. Influence of the salt mixture added to cariogenic diets of comparable sucrose content, 333.
HANKIN, L. Filicidal cannibalism by female albino rats, 377.
HANSEN, A. E. See Adam, D. J. D., 555; Wiese, H. F., 345.
HANSEN, A. E., M. E. HAGGARD, A. N. BOELSCHE, D. J. D. ADAM AND H. F. WIESE. Essential fatty acids in infant nutrition. III. Clinical manifestations of linoleic acid deficiency, 565.
HARPER, A. E. See Yoshida, A., 217.
HARPER, A. E., B. D. PUNEKAR AND C. A. ELVEHJEM. Effect of alkali treatment on the availability of niacin and amino acids in maize, 163.
HAYES, H. W. See Aaes-Jørgensen, E., 245.
Histidine metabolism, effects of thiamine and riboflavin deficiency on, 29.
HOLMAN, R. T. See Aaes-Jørgensen, E., 245.
HORVAT, A., AND H. MAVER. The role of vitamin A in the occurrence of goitre on the island of Krk, Yugoslavia, 189.
HURLEY, L. S., G. J. EVERSON AND J. F. GEIGER. Manganese deficiency in rats: congenital nature of ataxia, 309.
HUSSEY, C. V. See Kaser, M. M., 35.

INFANT formulas, evaluation of lysine supplementation of when fed to rats, 545.
— nutrition, essential fatty acids in. I. Linoleic acid requirement in terms of serum di-, tri- and tetraenoic acid levels, 345; II. Effect of linoleic acid on calorie intake, 555; Clinical manifestations of linoleic acid deficiency, 565.

JEBE, E. H. See Roderuck, C., 15.
JOHNSON, D., JR., G. A. LEVEILLE AND H. FISHER. Influence of amino acid deficiencies and protein level on the plasma cholesterol of the chick, 367.
JONES, J. D., AND C. A. BAUMANN. Growth of thiamine-deficient rats fed sorbitol or antibiotics in rations of varying fat content, 383.

KASER, M. M., C. V. HUSSEY AND S. J. ELLIS. The absorption of vitamin A in dogs following cholecystonephrostomy, 35.
KING, R. B. See Miller, G. J., 425.
KNIGHT, P. L. See Wostmann, B. S., 577.

LACTATION (gestation and) of rats, effect of feeding low levels of diethylstilbestrol on, 321.
LAUDICK, L. L. See Tang, J. J. N., 533.
LENGEMANN, F. W., AND J. W. DOBBINS. The role of bile in calcium absorption, 45.
LEPICK, E. E. See Aaes-Jørgensen, E., 245.
LEVEILLE, G. A. See Johnson, D., Jr., 367.
LEVEILLE, G. A., AND H. FISHER. The amino acid requirements for maintenance in the adult rooster. I. Nitrogen and energy requirements in normal and protein-depleted animals receiving whole egg protein and amino acid diets, 441.
LEVERTON, R. See Roderuck, C., 15.
Linoleic acid deficiency, clinical manifestations of. Essential fatty acids in infant nutrition, III., 565.
— —, effect of on caloric intake. Essential fatty acids in infant nutrition. II., 555.
— — requirement in terms of di-, tri- and tetraenoic acid levels. Essential fatty acids in infant nutrition, 345.
LYON, J. B., JR., H. L. WILLIAMS AND E. A. ARNOLD, WITH THE TECHNICAL ASSISTANCE OF D. A. BRADSHAW. The pyridoxine-deficient state in two strains of inbred mice, 261.
Lysine supplementation of infant formulas, evaluation of when fed to rats, 545.

MACKENZIE, C. G. See Debey, H. J., 607.
MACKENZIE, J .B. See Debey, H. J., 607.
Maize, niacin and amino acids in, effect of alkali treatment on the availability of, 237.
MALIK, D. A. See Balasundaram, S., 75; Cama, H. R., 123, 129.
Manganese deficiency in rats: congenital nature of ataxia, 309.
MATTILL, HENRY ALLBRIGHT (November 28, 1883–March 30, 1953), 3.
MAVER, H. See Horvat, A., 189.
Methionine and choline, effects of supplementary on tissue lipides and on the vascular structure of cholesterol-fed growing rats, 55.

N'-Methylnicotinamide and *N'*-methyl-2-pyridone-5-carboxamide, urinary excretion of on a low-niacin diet. Some aspects of tryptophan metabolism in human subjects. I., 587.
Mice, the pyridoxine-deficient state in two strains of inbred, 261.
MILLER, C. D. The dental caries response of rats fed cariogenic and non-cariogenic diets for different periods of time, 113.
MILLER, C. D., AND C. A. SCHLACK. Dental caries in two strains of rats fed diets of two degrees of fineness, 105.
MILLER, G. J., W. W. ELLIS, P. G. RAND AND R. B. KING. Comparative effects of cottonseed oil, fatty acids and diethylstilbestrol upon choline-deficient weanling albino rats, 425.
MOUDGAL, N. R., E. RAGHUPATHY AND P. S. SARMA. Studies on goitrogenic agents in food. III. Goitrogenic action of some glycosides isolated from edible nuts, 291.
Muscle, skeletal, of the guinea pig, effect of folic acid deficiency on myoglobin concentration in, 361.
Mouse, niacin requirement of, influence of dietary fat upon, 277.
Myoglobin concentration in skeletal muscle of the guinea pig, effect of folic acid deficiency on, 361.

NASSET, E. S. See Rosenthal, S., 91.
NATH, R. See Cama, H. R., 123.
Niacin and amino acids in maise, effect of alkali treatment on the availability of, 163.
— requirement of the mouse, influence of dietary fat upon, 277.
Nitrogen balances, blood pyridine nucleotides and urinary excretion of *N'*-methylnicotinamide and *N'*-methyl-2-pyridone-5-carboxamide on a low-niacin diet. Some aspects of tryptophan metabolism in human subjects. I., 587.
— and energy requirements in normal and depleted roosters receiving whole egg protein and amino acid diets. The amino acid requirements for maintenance in the adult rooster. I., 441.
— retention of young children, effect of amino acid supplementation of corn-masa at high levels of protein intake on. Supplementation of cereal proteins with amino acids. I., 485.
— retention of young children, effect of amino acid supplementation of corn-masa at intermediate levels of intake on. Supplementation of cereal proteins with amino acids. II., 501.
Nutrition, infant, essential fatty acids in. I. Linoleic acid requirement in terms of serum di-, tri-, and tetraenoic acid levels, 345; II. Effect of linoleic acid on caloric intake, 555; III. Clinical manifestations of linoleic acid deficiency, 565.
Nutritive value of differently processed groundnut meals and the effect of supplementation of the meals with amino acids, antibiotics and vitamin B_{12}, 75.
Nuts, edible, goitrogenic action of some glycosides isolated from. Studies on goitrogenic agents in food. III., 291.

OATS, studies of amino acid supplementation and amino acid availability with, 533.
Osborne and Mendel award in nutrition. 1958 presentation, 160; 1959 invitation, 137, 307.
Oxygen consumption of rats, effect of sodium salicylate on, 237.

PANTOTHENIC acid-deficient rats, testicular changes in, 457.
PARRISH, D. B. See Browning, C. B., 321.
PASSANANTI, G. T., N. B. GUERRANT AND R. G. THOMPSON. Effects of supplementary methionine and choline on tissue lipides and on the vascular structure of cholesterol-fed growing rats, 55.
Peanut meal, effect of bound gossypol on the growth-promoting properties of, 393.
PEARSON, W. N. See Utley, M. H., 205.
PEARSON, W. N., J. S. VALENZUELA AND J. VAN EYS. The influence of dietary fat upon the niacin requirement of the mouse, 277.
Penicillin, aureomycin and vitamin B_{12}, effect of on the liver reserves of vitamin A esters of the rat, 129.
—, orally-administered, influence of upon growth and liver thiamine of growing germfree and normal stock rats fed a thiamine-deficient diet, 577.
Plasma cholesterol of the chick, influence of amino acid deficiencies and protein level on, 367.
— cholinesterase of rats, effect of dietary proteins on the level of, 531.
PRICE, J. M. See Brown, R. R., 599.
Protease, salivary, activity of caries-susceptible rats, dietary studies on, 411.
Protein(s) (carbohydrate and), gastric emptying and intestinal absorption of as influenced by the nature of the test meal, 91.
—, cereal, supplementation of with amino acids. I. Effect of amino acid supplementation of corn-masa at high levels of protein intake on the nitrogen retention of young children, 485. II. Effect of supplementation of corn-masa at intermediate levels of protein intake on the nitrogen retention of young children, 501.
— -depleted roosters receiving whole egg protein and amino acid diets, nitrogen and energy requirements in normal and. The amino acid requirements for maintenance in the adult rooster, I., 441.
—, dietary, effect of on the level of plasma cholinesterase of rats, 515.
—, groundnut, prepared under different conditions of extraction of oil, electrophoretic analyses of, 123.
— intake, high levels of, effect of amino acid supplementation of corn-masa on the nitrogen retention of young children. Supplementation of cereal proteins with amino acids, I., 485.
— — intermediate levels of, effect of amino acid supplementation of corn-masa on the nitrogen retention of young children. Supplementation of cereal proteins with amino acids, II., 501.
— level (amino acid deficiencies and), influence of on the plasma cholesterol of the chick, 367.
—, whole egg, and amino acid diets, nitrogen and energy requirements in normal and protein-depleted roosters receiving. The amino acid requirements for maintenance in the adult rooster. I., 441.
PUNEKAR, B. D. See Harper, A. E., 163.
Pyridoxine-deficient state in two strains of inbred mice, 201.

RAGHUPATHY, E. See Moudgal, N. R., 291.
RAND, P. G. See Miller, G. J., 425.
Rat(s), adult. Essential fatty acid deficiency, II., 245.
—, caries-susceptible, dietary studies on salivary protease activity in, 411.
—, cholesterol-fed, effect of supplementary methionine and choline on tissue lipides and on the vascular structure of, 55.
—, dental caries in two strains fed diets of two degrees of fineness, 105.
—, effects of conjugated isomers of dienoic and trienoic fatty acids in. Essential fatty acid deficiency. III., 465.
—, effect of sodium salicylate on the food and oxygen consumption of, 277.
—, evaluation of lysine supplementation of infant formulas fed to, 545.
— fed cariogenic and non-cariogenic diets for different periods of time, dental caries response of, 113.
—, female albino, filicidal cannibalism by, 377.
—, gestation and lactation of, effect of feeding low levels of diethylstilbestrol on, 321.
—, growing germfree and normal stock, fed a thiamine-deficient diet, influence of orally-administered penicillin upon growth and liver thiamine of, 577.
—, liver reserves of vitamin A esters in, effect of penicillin, aureomycin and vitamin B_{12} on, 129.
—, manganese deficiency in: congenital nature of ataxia, 309.
—, pantothenic acid-deficient, testicular changes in, 457.
—, plasma cholinesterase of, effect of dietary proteins on the level of, 515.
—, thiamine-deficient, fed sorbitol or antibiotics in rations of varying fat content, growth of, 383.
—, weanling albino, comparative effects of cottonseed oil, fatty acids and diethylstilbestrol upon, 425.
— —, effect of dietary level of raw soybean oil meal on growth of, 229.
RESNICK, J. B., N. P. WILLETT AND J. H. SHAW. Dietary studies on salivary protease activity in caries-susceptible rats, 411.
REYNIERS, J. A. See Wostmann, B. S., 577.
REYNOLDS, M. S. See Brown, R. R., 599; Vivian, V. M., 587.
Riboflavin (thiamine and) deficiency, effects of on histidine metabolism, 29.
RODERUCK, C., L. BURRILL, L. J. CAMPBELL, B. E. BRAKKE, M. T. CHILDS, R. LEVERTON, M. CHALOUPKA, E. H. JEBE AND P. P. SWANSON. Estimated dietary intake, urinary excretion and blood vitamin C in women of different ages, 15.
Rooster, adult, amino acid requirements for maintenance in. I. Nitrogen and energy requirements in normal and protein-depleted animals receiving whole egg protein and amino acid diets, 441.
ROSENTHAL, S., AND E. S. NASSET. Gastric emptying and intestinal absorption of carbohydrate and protein as influenced by the nature of the test meal, 91.

SALT mixture, influence when added to cariogenic diets of comparable sucrose content, 333.
SARMA, P. S. See Moudgal, N. R., 291.
SCHLACK, C. A. See Miller, C. D., 105.
SCRIMSHAW, N. S. See Bressani, R., 501.
SCRIMSHAW, N. S., R. BRESSANI, M. BÉHAR AND F. VITERI. Supplementation of cereal proteins with amino acids. I. Effect of amino acid supplementation of corn-masa at high levels of protein intake on the nitrogen retention of young children, 485.
Serum di-, tri- and tetraenoic acid levels, linoleic acid requirement in terms of. Essential fatty acids in infant nutrition. I., 345.
—, estimation of vitamin A and carotene in by the Bessey-Lowry method, hemolysis and reagent purity as factors causing erratic results in, 205.
SHAW, J. H. See Haldi, J., 333; Resnick, J. B., 411.
SHERWOOD, F. W. See Smith, F. H., 393.
SMITH, F. H., C. T. YOUNG AND F. W. SHERWOOD. Effect of bound gossypol on the growth-promoting properties of cottonseed, soybean and peanut meals, 393.
SMITH, J. M. See Dick, E. C., 173.
Sodium salicylate, effect of on the food and oxygen consumption of rats, 237.
SOGNNAES, R. F. See Haldi, J., 333.
Sorbitol in rations of varying fat content, growth of thiamine-deficient rats fed, 383.
Soybean meal, effect of bound gossypol on the growth-promoting properties of, 393.
— oil meal, raw, effect of dietary level on the growth of weanling rats, 229.
Sucrose content (comparable) of cariogenic diets, influence of the salt mixture added, 333.
SWANSON, P. P. See Roderuck, C., 15.

TANG, J. J. N., L. L. LAUDICK AND D. A. BENTON. Studies of amino acid supplementation and amino acid availability with oats, 533.
Thiamine-deficient rats fed sorbitol or antibiotics in rations of varying fat content, growth of, 383.
— excretion, urinary, thiamine requirement of eight adolescent boys, as estimated from, 173.
—, liver, of growing germfree and normal stock rats fed a thiamine-deficient diet, influence of orally-administered penicillin upon, 577.
— requirement of eight adolescent boys, as estimated from urinary thiamine excretion, 173.
— and riboflavin deficiency, effects of on histidine metabolism, 29.
Thiazolidinecarboxylic acid, replacement of exogenous cystine and cysteine by, 607.
Thompson, R. G. See Passananti, G. T., 55.
Tryptophan metabolism in human subjects, some aspects of. I. Nitrogen balances, blood pyridine nucleotides and urinary excretion of *N'*-methylnicotinamide and *N'*-methylnicotinamide and *N'*-methyl-2-pyridone-5-carboxamide on a low-niacin diet, 587; II. Urinary tryptophan metabolites on a low-niacin diet, 599.
— metabolites, urinary, on a low-niacin diet, Some aspects of tryptophan metabolism in human subjects, II., 599.

UTLEY, M. H., E. R. BRODOVSKY AND W. N. PEARSON. Hemolysis and reagent purity as factors causing erratic results in the estimation of vitamin A and carotene in serum by the Bessey-Lowry method, 205.

VALENZUELA, J. S. See Pearson, W. N., 277.
VAN EYS, J. See Pearson, W. N., 277.
VENKATESHAN, C. See Balasundaram, S., 75.
Vitamin A, absorption of in dogs following cholecystonephrostomy, 35.
— and carotene, estimation of in serum by the Bessey-Lowry method, hemolysis and reagent purity as factors causing erratic results in, 205.
— esters of the rat, effect of penicillin, aureomycin and vitamin B_{12} on the liver reserves of, 129.
— —, role of in the occurrence of goitre on the island of Krk, Yugoslavia, 189.
— B_{12}, amino acids and antibiotics, effect of supplementation of differently processed groundnut meals with on the nutritive value of the meals, 75.
— —, penicillin and aureomycin, effect of on the liver reserves of vitamin A esters of the rat, 129.
— C, estimated dietary intake, urinary excretion and blood, in women of different ages, 15.
VITERI, F. See Bressani, R., 501; Scrimshaw, N. S., 485.
VIVIAN, V. M. See Brown, R. R., 599.
VIVIAN, V. M., M. M. CHALOUPKA AND M. S. REYNOLDS. Some aspects of tryptophan metabolism in human subjects. I. Nitrogen balances, blood pyridine nucleotides and urinary excretion of *N'*-methylnicotinamide and *N'* methyl-2-pyridone-5-carboxamide on a low-niacin diet, 587.
WHEDON, A. D. See Barboriak, J. J., 457.
WIESE, H. F. See Adam, D. J. D., 555; Hansen, A. E., 565.
WIESE, H. F., A. E. HANSEN AND D. J. D. ADAM. Essential fatty acids in infant nutrition. I. Linoleic acid requirement in terms of serum di-, tri- and tetraenoic acid levels, 345.
WILLETT, N. P. See Resnick, J. B., 411.
WILLIAMS, H. L. See Lyon, J. B., Jr., 261.
Women of different ages, estimated dietary intake, urinary excretion and blood vitamin C in, 15.
WOSTMANN, B. S., P. L. KNIGHT AND J. A. REYNIERS. The influence of orally-administered penicillin upon growth and liver thiamine of growing germfree and normal stock rats fed a thiamine-deficient diet, 577.
WYNN, W. See Haldi, J., 333.
YOSHIDA, A., A. E. HARPER AND C. A. ELVEHJEM. Effect of dietary level of fat and type of carbohydrate on growth and food intake, 217.
YOUNG, C. T. See Smith, F. H., 393.